## **CLAIMS**

1. An apparatus for cutting a workpiece, the apparatus comprising:

a linear feed assembly capable of automatically moving a workpiece forward and backward along its longitudinal axis; and

an automated cutting assembly having at least one cutting blade, the cutting blade

rotatable about a pivot axis, movable along a vertical axis into and out of cutting contact with
a workpiece, and rotatable along a bevel axis, the apparatus thereby able to cut the workpiece
at a compound angle using a stab cut..

- 2. An apparatus as in Claim 1 wherein the cutting blade is further automatically movable along a transverse axis, the apparatus able to cut the workpiece at a compound cut using a stab cut in combination with cutting while moving the blade along the transverse axis.
- 3. An apparatus as in Claim 1 further comprising a computer assembly for operating and controlling movement of the cutting blade.
- 4. An apparatus as in Claim 1, the cutting blade having a maximum cut length longer than the length of the compound cut.
- 5. An apparatus as in Claim 1, the blade having a maximum cut length of at least six inches.
- 6. An apparatus as in Claim 5 further comprising upstream and downstream feed assemblies operable to clamp and move workpieces, sense the presence or absence of a workpiece, determine the length of a workpiece, and position the workpiece for cutting at a selected length.
- 7. An apparatus as in Claim 1, the blade having a maximum cut length of at least ten inches.
- 8. An apparatus as in Claim 1 wherein the apparatus is able to cut the workpiece at other than a ninety-degree bevel cut.

- 9. An apparatus for cutting a workpiece, the apparatus comprising: a linear feed system for moving a workpiece along its longitudinal axis; and a cutting assembly having a cutter blade capable of cutting the workpiece using a stab cut to create a bevel cut on the workpiece.
- 10. An apparatus as in 9 wherein the cutting blade is further automatically movable along a transverse axis and is capable of cutting the workpiece using a stab cut in combination with a transverse cut.
- 11. An apparatus as in Claim 9 further comprising a computer assembly for operating and controlling movement of the cutting blade.
- 12. An apparatus as in Claim 9, the cutter blade having a maximum cut length greater than the length of the bevel cut.
- 13. An apparatus as in Claim 9 wherein the bevel cut is a ninety-degree bevel cut.
- 14. An apparatus for cutting a workpiece, the apparatus comprising:

  a linear feed assembly for moving a workpiece along its longitudinal axis; and
  a cutting assembly having a cutting blade, the cutting blade having a maximum cut
  length and capable of automatically creating a bevel cut wherein the length of the bevel cut is

  5 greater than the cut length of the blade.
  - 15. An apparatus as in 14 wherein the cutting blade is further automatically movable along a transverse axis.
  - 16. An apparatus as in Claim 16 wherein the cutting blade is operable to automatically create at least one bevel cut on a workpiece, at least one transverse cut on the workpiece, and at least one scarf cut on the workpiece..

- 17. A method for automatically cutting a workpiece, the method comprising the steps of:
   positioning a cutting blade by rotating the blade about a vertical axis;
   positioning the cutting blade by rotating about a bevel axis; and
   lowering the blade into cutting contact with the workpiece and stab cutting the
   5 workpiece while simultaneously moving a workpiece along its longitudinal axis, thereby creating a bevel cut.
  - 18. A method as in Claim 17 further comprising the step of moving the blade along a transverse axis.
  - 19. A method as in Claim 17 further comprising the step of moving the cutting blade along a transverse axis simultaneous to moving the workpiece along its longitudinal axis
  - 20. A method as in Claim 17 further comprising making a ninety-degree bevel cut.